Docket No.: KUD-008

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OCT 2 6 2006

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Inventor(s): Kenji FUJIWARA et al.

Confirmation No. N/A

U.S. Patent Application No. 10/588,516

Group Art Unit: N/A

Filed: August 4, 2006

Examiner: N/A

For:

IPM ELECTRONIC ROTATING MACHINE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

Respectfully submitted,

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Date: October 26, 2006

CERTIFICATION OF FACSIMILE TRANSMISSION I HEREBY CERTIFY THAT THIS PAPER IS BEING FACSIMI-LE TRANSMITTED TO THE PATENT AND TRADEMARK OFFICE ON THE DATE SHOWN BELOW

Candanci Chambliss

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DATE

571-273-8300

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CITATION IN AN

APPLICATION

EXAMINER /Burton Mullins/ (09/05/2008)

U.S. PATENT

10/588,516

APPLICATION NO.

2002/093

Sheet 1 of 1

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ATTY. DOCKET NO.

Kenji FUJIWARA et al.

KUD-008

APPLICANT

FILING DATE GROUP (PTO/SB/O8A) August 4, 2006 N/A US PATENT DOCUMENTS **EXAMINER'S** FILING INITIALS PATENT NO. CLASS SUBCLASS DATE NAME DATE FOREIGN PATENT DOCUMENTS **EXAMINER'S** Equivalent PATENT NO. COUNTRY Abstract DATE Translation INITIALS October 31, /B.M./ 09-28508 JР 1997 October 08, 11-275784 JP x x 1999 09-201065 July 31, 1997 JP x 08-182105 July 12, 1996 JP x x OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

OFFICE ACTION

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KUD-008

Reasons:

Based on the invention disclosed in the following publications distributed in Japan or foreign country, or available in public through a telecommunication line before the present application was filed, the present invention according to the following claims for the application is considered that it could have been easily invented before the filling date by a skilled person who has a general knowledge in the art the invention belongs. Therefore, the invention is not patentable pursuant to the

- NOTE - (see the cited references list for the cited references)

provisions set forth in Article 29, Section 2 of the Patent Law.

- ·Claims 1 and 2
- ·Cited references 1 and 2
- · Remarks

the cited reference 1 is directed to an invention of a stator provided with a stator winding wound with a concentrated winding and IPM motor provided with a rotor having a plural of permanent magnets therein. It is disclosed that the number of a stator magnetic pole is 12 poles and the number of a rotator magnet is 14 poles (refer to [0031]. When the stator magnetic pole is M and the rotator magnet is P, it is disclosed that M:P=6n:6n±2(n is a positive integer)).

In claim 1 according to the present application, the distance d between the magnetic pole surface facing the side surface of the magnet and center of the rotor is set as $d \ge r - D/10 \, (D = 2\pi r/n^2)$, r: radius of the rotor). In the invention described in the cited reference 1, the magnet is disposed around the outer perimeter of the rotator, but there is no description of magnet location to meet the condition described in claim 1. Therefore, the invention according to claim 1 and the invention disclosed in the cited reference 1 are different in this regard.

However, it is obvious that the permanent magnet in the cited reference 1 is provided around the outer perimeter. A determination of providing the permanent magnet how close to the outer perimeter can be properly decided by a skilled person in consideration of an affection of magnetic flux and strength (for example, see the cited reference 2). Also, even if the distance d between the magnetic pole surface facing the side surface of the magnet and center of the rotor is restricted to $d \ge r - D/10$ ($D = 2\pi r/n2$, r: radius of the rotor), it is not deemed that an extra remarkable result can be obtained.

- ·claims 3 through 5
- ·Cited references 1 through 4

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· Remarks

It is a well known art that IPM motor is used as a driving source for an electrical automobile and electrical vehicle (for example, see the cited references 3 and 4).

- The cited references list -
- 1, TOKKAI No. H09-285088
- 2, TOKKAI No. H11-275784
- 3, TOKKAI No. H09-201065
- 4, TOKKAI No. H08-182105